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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,978	09/22/2003	Hajime Hasebe	H-1019-02	4982	
24956 7590 02/13/2008 MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. 1800 DIAGONAL ROAD			EXAM	EXAMINER	
			LOUIE, WAI SING		
SUITE 370 ALEXANDRI	A. VA 22314	ART UNIT	PAPER NUMBER		
	.,	2814			
			MAIL DATE	DELIVERY MODE	
			02/13/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)	
10/664,978	HASEBE ET AL.	
Examiner	Art Unit	
Wai-Sing Louie	2814	

Office Action Summary	Examiner	Art Unit				
•	Wai-Sing Louie	2814				
The MAILING DATE of this communication app	•		ldress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Estensions of time may be available under the provisions of 37 CPR 1.15 - If NO period for reply is a specified above, the maximum statutory period to reply within the soft or oxended period for reply with the set or extended period for reply with the set or extended period for reply with part and the maximum state the mailing carried patent term adjustment. See 37 CPR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on	_					
2a) This action is FINAL. 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>58-62</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>58-62</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. ☐ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
	•	ed in this National	Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Gee the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					

- 3) ☑ Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date 9/22/03.
- 5) Notice of Informal Patent Application
 6) Other: _____.

Application/Control Number: 10/664,978

Art Unit: 2814

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 58-59 are rejected under 35 U.S.C. 102(b) as being anticipated by Sonobe et al. (US 6,054,716).

With regard to claims 58-59, Sonobe et al. disclose a semiconductor light-emitting device (col. 8, line 35 et seq. and fig. 1a) comprising:

- A seal member 6 formed of an insulating resin (col. 8, line 53);
- A tab 11 whose back side is exposed to a mounting surface of the seal member 6, the tab 11 having, on a surface opposite to the back side, a semiconductor chip 3 fixing area and wire connection areas 4 (col. 8, line 40 and fig. 1a);
- Tab suspension leads 1 and 2 contiguous to the tab (fig. 1a);
- A plurality of leads 1 and 2 whose back sides are exposed to the mounting surface of the seal member 6 (fig. 1a);
- A semiconductor chip 3 positioned within the seal member 6 and fixed through an
 adhesive onto the semiconductor chip fixing area in such a manner that a back
 side of the semiconductor chip 3 is opposed to the semiconductor chip fixing area

Art Unit: 2814

(col. 9, lines 43-45 and fig. 1a), the semiconductor chip has electrodes formed on a main surface of the semiconductor chip 3 (fig. 1a);

• Electrically conductive wires 4 for electrically connecting the electrodes of the semiconductor chip and surfaces of the leads 1 and 2 and electrically connecting the electrodes on the semiconductor chip 3 and the wire connecting areas on the tab (col. 8, lines 50-53 and fig. 1a), where the tab 11 is formed larger than the semiconductor chip 3 so that outer peripheral edges of the tab 11 are positioned outside outer peripheral edges of the semiconductor chip 3 (fig. 1a), and where the tab 11 has first sides formed at the semiconductor chip fixing area and second sides opposed to the first sides, formed between the semiconductor chip fixing area and the wiring connecting areas (fig. 1a).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 60-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonobe et al. (US 6,054,716) in view of Uemura (US 6,310,364).

With regard to claim 60, Sonobe et al. disclose the tab 11 and surfaces of leads 1 and 2 have wire connection areas, but do not disclose a plating film selectively formed on the wire

Application/Control Number: 10/664,978

Art Unit: 2814

connection areas. However, Uemura discloses applying solder or silver paste on the lead frame 50a and 50b (Uemura col. 6, lines 6-7 and fig. 1). Uemura teaches the solder or silver paste makes the connection between the lead frame 50a and 50b with the bonding pad 11a and 11b relative case (Uemura col. 6, lines 6-12). Therefore, it would have been obvious to one of ordinary skill in the art to modify Sonobe's device with the teaching of Uemura to provide a plating film (solder or silver paste) in order to make the connections relative ease.

With regard to claims 61-62, Sonobe et al. disclose the tab 11 is circular (fig. 1b), but do not disclose the tab is quadrangular shape, where the first and second sides are formed selectively in a mutually independent manner, or where the width of the surface of the tab is larger than a width of the back side. However, selecting different shape of tab is considered as changes in shape of the product. The changes in shape of the product are held to have been obvious for a person of ordinary skill in the art. In re Daily 149 USPQ 47, 50 (CCPA 1966). See also Glue Co. v. Upton 97 US 3, 24 (USSC 1878).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is 571-272-1709. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/664,978 Page 5

Art Unit: 2814

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wai-Sing Louie/ Primary Examiner, Art Unit 2814

Wsl February 11, 2008.